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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/534,262	05/06/2005	Kohji Yoshinaga	TSUZ 2 00021	1013
75	90 12/20/2005		EXAM	INER
Jay R. Moldovanyi			DO, PENSEE T	
Fay Sharpe Fagan Minnich & McKee 1100 Superior Avenue, 7th Floor			ART UNIT	PAPER NUMBER
Cleveland, OH 44114-2518			1641	

DATE MAILED: 12/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/534,262	YOSHINAGA ET AL.
Office Action Summary	Examiner	Art Unit
	Pensee T. Do	1641
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C.§ 133).
Status		
 1) Responsive to communication(s) filed on 06 M 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowed closed in accordance with the practice under M 	s action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) 5 and 6 is/are withdensity is/are allowed. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-6 are subject to restriction and/or expected to a subject to restriction and/or expected to by the Examination The description of the descri	rawn from consideration. election requirement. er.	Evaminor
10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* See the attached detailed Office action for a list	nts have been received. Its have been received in Applicat Drity documents have been receive Drity Corn Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) ☑ Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	· (DTO 442)

Art Unit: 1641

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-4, drawn to a magnetic marker.

Group II, claim(s) 5-6, drawn to a method of making a magnetic marker.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the corresponding special technical features are the magnetic marker composed of a magnetic fine particle with diameter between 20 and 40 nm, and a polymer encapsulating the particle wherein the particle diameter is 40 to 100 nm, said polymer having carboxyl groups on the surface thereof. However such special technical feature is taught by Colin et al. (US 5,773,307).

Colin teaches a magnetic particle comprising of a metal core such as Fe3O4, encapsulated by a polymer such as carboxymethylcellulose (carboxyl groups). The diameter of the core ranges from 5 and 30 nm and the external diameter of the magnetic particle ranges between 20 nm and 900 nm. (see col. 3, lines 38-55; example 1).

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Since the special technical feature is taught in the prior arts, it is no longer a special technical feature. Therefore, the present invention lacks the same

corresponding special technical feature. Thus, restriction is appropriate.

During a telephone conversation with Mr. Jay Moldovanyi on November 28, 2005 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-4. Affirmation of this election must be made by applicant in replying to this Office action. Claims 5-6 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Colin et al. (US 5,773,307).

Colin teaches a magnetic particle comprising of a metal core such as Fe3O4, encapsulated by a polymer such as carboxymethylcellulose (carboxyl groups). The

diameter of the core ranges from 5 and 30 nm and the external diameter of the magnetic particle ranges between 20 nm and 900 nm. (see col. 3, lines 38-55; example I). Regarding the use of the magnetic marker with a SQUID magnetic sensor, since the magnetic marker of Colin has all the required features as those of the present invention, the magnetic marker of Colin can be used with a SQUID magnetic sensor as well.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 & 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Colin et al.

Colin has been discussed above.

However, Colin fails to teach that the polymer has on the surface thereof, 500 to 5000 carboxyl groups per particle or 2000 to 3000 carboxyl groups.

Colin teaches the magnetic markers encapsulated with a polymer having carboxyl groups. It would have been obvious to one of ordinary skills in the art at the time the invention was made to have 500 to 5000 carboxyl groups on the surface of the polymer per particle since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skills in the art. In re Aller, 105 USPQ 233.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pensee T. Do whose telephone number is 571-272-0819. The examiner can normally be reached on Monday-Friday, 7:00-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on 571-272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pensee T. Do Patent Examiner December 9, 2005

LONG V. LE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600

12/09/08